IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

application No.:

10/509,248

Filing Date:

September 28, 2004

Applicant(s):

Shunichi KURODA et al.

Group Art Unit:

Unknown

Examiner:

Unknown

Title:

THERAPEUTIC DRUG BASED ON PROTEIN HOLLOW NANOPARTICLES DISPLAYING GROWTH FACTOR, ETC.

Attorney Docket:

12480-000066/US

U.S. Patent and Trademark Office 220 20th Street S. Customer Window Crystal Plaza Two, Lobby, Room 1B03 Arlington, VA 22202 December 28, 2004

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. <u>COPIES</u>

A. Submitted herewith is a legible copy of (i) each U.S. patent application
publication and U.S. and foreign patent; (ii) each publication or that portion which
caused it to be listed; (iii) for each cited pending U.S. application, the application
specification including the claims, and any drawing of the application which caused it
to be listed including the claims directed to that portion; and (iv) all other information
or that portion which caused it to be listed.

B. Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

5.

U.S. Filing Date

	C. Because the present application copies of the U.S. patents or U.S. patents	atent application publications closed pursuant to the wait documents or non-patent lite	which are listed on iver of 37 C.F.R.		
	D. This is a PCT application in the A copy of the International Search In The documents listed on the International Search Internationa	Report is attached for the Examinational Search Report are list Examiner and for listing on the ernational Search Report was these references should have been and are believed to be in the	niner's information. ted on the attached any patent resulting from the US, EPO, been supplied to the		
III.	CONCISE EXPLANATION OF TH	IE RELEVANCE (check at lea	ast one box)		
	A. Except as may be indicated other information are in the English		_		
	B. A concise explanation of the information listed that is not in the 1.98(a)(3)):				
	 See the attached foreign application: English translations are Other: 	n patent office communication provided for:	n from a counterpart		
	C. The following additional consideration.	information is provided f	or the Examiner's		
IV.	CROSS REFERENCE TO RELATE	ED APPLICATION(S)	•		
	A. The Examiner is advised that the following co-pending application contain(s) subject matter that may be related to the present application. By bring this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not wantee confidentiality provisions of 35 U.S.C. § 122.				
	Serial No.	Filing Date	Art Unit		

V. THIS IDS IS BEING FILED UNDER

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A. 🔀	3/ C.F.R. § 1.9/(b): (check <u>only</u> one box)
	1. within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
	2. within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
	3. before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
	4. before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.
B. 🗌 3	37 C.F.R. § 1.97(c): (check <u>only</u> one box)
	before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.
	1. No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
	2. See the certification below. No fee is required.
C. 🗌	37 C.F.R. § 1.97(d):
	after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
	1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

A.-.

	The undersigned hereby certifies that:
	A. a each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII if applicable; or
	B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
	C. Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.
VII.	STATEMENT UNDER 37 CFR 1.704(d)
	The undersigned hereby states that:
a forei by any this II	each item of information contained in this IDS was cited in a communication from ign patent office in a counterpart application and this communication was not received individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of OS.
VIII.	PAYMENT OF FEES (check only one box)
	A. A check in the amount of \$180.00 is enclosed for the above-identified fee.
	B. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C.

y <u>(h</u>t

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DJD/bof

Enclosures:	\boxtimes	Form PTO-1449(s)
	\boxtimes	Documents
		Foreign Search Repor
		Fee
		Other:

Form PTO-1449			ATTY DOCKET NO. 12480-000066/US		APPLICATION NO. 10/509,248		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)			APPLICANTS Shunichi KURODA et al.		CONF. NO. Unknown		
			FILING DATE September 28, 2004		GROUP Unknown		
	U.S	S. PATENT DO	CUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB FILING DATE CLASS IF APPROPRIAT		
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	FORE	IGN PATENT I	DOCUMENTS	<u> </u>			
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OTHER page(s), volume-issu	DOCUMENTS (Include Name of the author (in Cenumber(s), publisher, city and/or country where published.	CAPITAL LETTERS), title of the ar	rticle (when appropriate), title of the item (book	k, magazine, jo	urnal, serial, symp	osium, catalo	g, etc.) date,
	Hiromitsu JINNO et al., "Epidermal Growth Factor Receptor-Dependent Cytotoxicity for Human Squamous Carcinoma Cell Lines of a Conjugate Composed of Human EGF and RNase 1", Life Sciences, Vol. 58, No. 21, pp. 1901-1908 (1996).						
	Goretti MALLORQUÍ-FERNANDEZ et al., "Three-dimensional Crystal Structure of Human Eosinophil Cationic Protein (RNase 3) at 1.75 Å Resolution", J. Mol. Bio., 300, pp. 1297-1307 (2000).						
	J. Le SEYEC et al., "Infection Process of the Hepatitis B Virus Depends on the Presence of a Defined Sequence in the Pre-S1 Domain", J. Virology, Vol. 73, No. 3, March, 1999, pp. 2052-2057.						
	Graeme I. BELL et al., "Human Epidermal Growth Factor Precursor: cDNA Sequence, Expression in vitro and gene organization", Nucleic Acids Research, Vol. 14, No. 21, pp. 8427-8446 (1997).						
EXAMINER			DATE CONSIDERED				
EXAMINER: Initial i	f citation considered, whether or not citation is in conformance with M.	P.E.P. 609; Draw line through citation	if not in conformance and not considered. Include	le copy of this f	orm with next com	nunication to a	pplicant.

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